**HTTP (Hyper Text Transfer Protocol):**

* HTTP is a top-level application protocol that exchanges information between a client computer and a local or remote web server. It is a client/server model.
* By using HTTP user sends the request to the server & the server sends the response to the user.
* **HTTP2 is much faster and more reliable than HTTP1.1.** HTTP1.1 loads a single request for every TCP (Transmission Control Protocol) connection, while HTTP2 avoids network delay by using multiplexing. HTTP is a network delay sensitive protocol in the sense that if there is less network delay, then the page loads faster.
* There are several stages of development of HTTP but we will focus mainly on HTTP/1.1 which was created in 1997.
* The new one is HTTP/2 which was created in 2015 by Internet Engineering Task Force (IETF), the second major version of the most useful internet protocol, HTTP. It was derived from the earlier experimental SPDY protocol.

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| **HTTP/1.1** | **HTTP/2** |
| * It works on the textual format | * It works on the binary protocol |
| * There is head of line blocking that blocks all the requests behind it until it doesn’t get its all resources. | * It allows multiplexing so one TCP connection is required for multiple requests. |
| * It compresses data by itself. | * It uses HPACK for data compression |
| * It uses requests resource inlining for getting multiple pages | * It uses PUSH frame by server that collects all multiple pages |